

LDAR Report

Mark West

Liberty-Dryer Comp. Stn.

Annual Report NSPS Subpart 0000a PERIOD: 2018

Prepared By:

Target Emission Services

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Report Generated on: Sep 25, 2019



Company: Mark West		Report:	Annual LDAR			
District: Liberty Facility Name: Liberty-Dryer Co GPS Coord. 40.241700 This report satisfies the requirements of			Regulation(s): Report Date:	NSPS Subpart OOO0a Sep 25, 2019		
		-80.454000	Period:	2018-Jan-01	то	2018-Dec-3
This report s	ausiles ule requireme	1115 OF 40 CFR 950.5420a(b)	/) for the collection of fugitive	e emissions components at th	ne above referenced compressor	station.
		nformation required t	o be reported per §6	60.5420a(b)(7)(i) - (vi		
Monitoring		Q1	Q2	Q3	Q4	N/A
Survey Start Date/Time		03/22/2018 8:55 AM	06/14/2018 2:00 PM	09/12/2018 8:30 AM	12/06/2018 1:00 PM	N/A
Survey End Date/Time		03/22/2018 12:00 PM	06/14/2018 4:00 PM	09/12/2018 10:45 AM	12/06/2018 4:30 PM	N/A
OGI Tech (see Appendix for OGI Technici		Will McSparren	Will McSparren	Evan Musselman	Mike Kupper	N/A
Ambient T	emp. (°F)	25	80	62	34	N/A
Sky Con		Partly Cloudy, 10%-50% sky is clouds	Partly Cloudy, 10%-50% sky is clouds	Overcast, >90% of the sky is covered by clouds	Overcast, >90% of the sky is covered by clouds	N/A
Max. Wind Sp	eed (MPH)	6	15	15	15	N/A
LDAR Inst		Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	N/A
§60.5420a(b)(7)(vi) Monitorin		No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	N/A
Deviation(s) Explanation		N/A	N/A	N/A	N/A	N/A
	CITY AND ADDRESS OF A SALES OF THE PARTY OF	7)(vii) - Number and type	CONTRACTOR AND SOUTH AND SOUTH STATE OF THE SOUTH S	ch fugitive emissions w	vere detected	
Valve		3	1			
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Open-Ended Lines					1	
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Othe						THE PERSON NAMED IN COLUMN
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Valve	ACTORNIES CONTROL MAD NOT ALL THERE ALL P.		angalagi kan majar kapaten nga		o required in gooloosra(ii)	
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0.5420a(c)(15)(ii)(i)(7) – Number and typ	e of components that we	re tagged as a result of §60.5397a(h)(3)(ii).	not being repaired dur	ing the monitoring survey	as required i
Valve			1	The state of the s		
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950.542 Valve	The second of th	and type of difficult-to-	nonitor and unsafe-to-n	nonitor rugitive emissic	on components monitored	
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AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	containment of the containing of	420 (1.1/21/) 2	The second secon	on component (see Repair Li	Name and Address of the Owner o	



Fugitive Emissions Components Placed on DOR

This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(xi), "number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair".

Q1 8/22/2018	Q2 6/14/2018	Q3 9/12/2018	Q4 12/6/2018	N/A
8/22/2018	6/14/2018	9/12/2018	12/6/2018	
			i li	
		0		
nission ID #	Component Type	Current Repair Status	r Delay of Repair Explanation / Justification	
			nission ID Component Current Repair	nission ID Component Current Repair Delay of



Fugitive Emissions Components Repaired During Reporting Period

This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(x), "date of successful repair of the fugitive emission component" and §60.5420a(b)(7)(xii), "type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding".

Date Surveyed	Emission ID#	Date of Successful Repair	Repair Confirmation Method / Instrument
2018-03-22	17610094	2018-Apr-04	Snoop
2018-03-22	17610095	2018-Apr-04	Snoop
2018-03-22	17610096	2018-Apr-04	Snoop
2018-06-14	24610079	2018-Jun-18	Snoop
2018-12-06	24310271	2018-Dec-13	OGI



OGI Technician Training and Experience

Monitoring surveys are performed by personnel that are trained in the proper operation of the OGIC (Optical Gas Imaging Camera) to be used in the monitoring survey and that have prior experience using OGICs for the purposes of identifying fugitive emissions. Additionally, monitoring personnel are familiar with the types of equipment located at a natural gas compressor station. All monitoring personnel review each site specific monitoring plan prior to performing monitoring surveys at the Facility.

All Monitoring Technicians follow a protocol containing technical procedures, training requirements, and individual and team performance audits. This protocol ensures that each crew member follows a prescriptive training program. The training program includes minimum required field times for each module. Each module uses both written testing and on-site work performance audits to evaluate the crew member on their work performance.

Each crew member must successfully complete their training modules to be allowed to work as a member of the main field crew. The protocol also includes an audit program to evaluate work performance on an on-going basis. This system ensures that each crew member is adhering to the procedures and guidelines of the protocol.

Each monitoring technician:

- 1) holds a strong knowledge of oil and gas operations and has a detailed understanding of the various processes that are involved in the transportation and processing on natural gas.
 - 2) is trained (certified) and experienced in the use of fugitive emission detection and measurement equipment;
- 3) has a minimum of 1000 hours of experience on the use of optical gas imaging, ultrasonic leak detection and emission flow rate measurement
 - 4) maintains required safety training and strong understanding of applicable TARGET Safe Operating Procedures; and
 - 5) received performance audits to ensure compliance to our prescriptive fugitive emission assessment protocol

The protocol contains technical procedures, training requirements, and individual and team performance audits. The purpose of our assessment protocol is to:

- 1) Maintain a high degree of Quality Control;
- 2) Ensure that all sources of fugitive emissions are identified;
- Ensure that all source data is consistently recorded to provide reliable and effective emission reduction recommendations.

This protocol eliminates the common problems and barriers that cause many programs to fail. Our staff are trained and audited to avoid many of the common fugitive emission program problems. Some of these common problems include:

- · Inexperienced with camera use and the concepts of infrared thermography
- · Not using multiple camera angles
- · Constantly moving the camera from scene to scene without pausing in each view to look for gas images
- · Many leaks are missed by relying solely on the automatic mode (manual mode can be more effective in certain situations)
- · Scanning too fast and missing components

Accurate data collection and entry is crucial to maintaining an effective Fugitive Emission Management Program. The data management protocol includes a data QA/QC review process that contains three levels of evaluation:

- 1) Technician Self Check at the end of each assessment the technician must review each emission entry to locate and remediate any data inconsistencies
- 2) Team Lead Review at the end of each work day the Team Lead will run a QA/QC evaluation on each assessment and emission to ensure that data has been entered following the TARGET Protocol.
- 3) Project Manager Evaluation on a weekly basis the project manager will run all emission data through a QA/QC data evaluation to detect and eliminate any inconsistencies.



OGI Technician Training and Experience

Survey Date	OGI Technician	Certification Date	Months of OGI Experience
2018-Mar-22	Will McSparren	2017-Dec-04	4
2018-Jun-14	Will McSparren	2017-Dec-04	7
2018-Sep-12	Evan Musselman	2018-Jul-15	3
2018-Dec-06	Mike Kupper	2015-Nov-25	38